Outsource process-Anodize per OSI017 4.1.10.1

\*120\*

Мето

0.00

CZ 13/08/21 1)

Anodize Matte Black per QSI 017

120

Outsource4

Outsource process - Anodize

•		DQA:	Date:	
NCR: Ves / No.	WORK ORDER NON-CONFORMANCE / UPDATE			

NCR: Yes /
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	, 									QA Closed:	Date	e:
Work Orde	DISPOSITION AGAINST DEPARTMENT/PROCESS											
WOIK OILE		-		<del></del>	Rework	1		Skid-tube	Crosstube	7	Water Jet	Engineering
Part N	lo.				Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	Quality
					Use-as-is	1 1	Thermoforming Finishing Rec/Store/Packaging Other					Other
NCR N	lo.				Work Order Update	1 1	Large Fab Composite Supplier					
Root					ption of work order update	1	itial		ction	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chie	ef Eng	Desc	cription	Date	Verification	
Doc/Data						1				1		03
Equip/Tooling												
Operator	<u>.                                    </u>											
Material			'									
Setup						1						
Other						1						
Process		1				1						
Supplier												
Training		l				ŀ						
Unapproved		<u> </u>		<u> </u>		<u> </u>					L	<u> </u>
					<del></del>	AULT	CATE	GORY		-		
Landi	ng Gear			<del></del>	General	<del></del> .			_	ا با م	Г	Pressure/Forced
	Bending	_			Bend	$\mathbf{H}$	Grain		<u> </u>	Ovalized	<u> </u>	Temperature/Cure
	Centre N	ot Concer	ntric to (	<sup>O/S</sup>  -	BOM/Route	-	lardwa		-	Over/Under	-	Weld
	Cracks	en e		$\vdash$	Broken/Damaged	-		on incomplete	// // // // // // // // // // // // //		<u>-</u>	Wrong Stock Pulled
	<b>—</b>	ushed/Crimped Burrs				-		ions Incomplete, nance	/Officiear	Part Lost/Mi Part Moved	issuig [	
	Cuffs Contamination				-	viainte Vislabe		-	Positioned V	Vrong		
	Heat Trea		Tubo		Countersink Cut Too Short	$\mathbf{H}$	viisiabe Viisread		}-	Power Loss/		Other
	Inspectio Ripples in		lune	<u> </u>	Drill Holes	$\mathbf{H}$	viisreac Offset	•	L			Tomer
	<b>⊢</b> — ' '		Vtrucio:	<u> </u>	Drawing	$\vdash$	_	Calibration				
Torque Waves in Extrusion Drawing Turning Sequence Finish				$\vdash$		Sequence						
	<b>⊢</b>	vist in Tul		<u> </u>	Folio	$\vdash$		Dimensions				

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Work Ord				*10	<del>=                                    </del>								
Item ID: Revision ID: Item Name:	: Aspirator Assy - Defrost							)*	Setup	Start Stop	*N: *N:	S1* S2*	
Start Date: Required Date: Reference:	8/20/2013 : 8/30/2013	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*			ust Item II ustomer:	D:						
Approvals:	Process Pla	in:	Date:	Tooling: SPC (Y/N):		Da	_ te: te:	-		Run	Start Stop	*N  *N	R1* R2*
Sequence ID/ Work Center II 130 *130* Packaging Packaging	<b>D</b>	Operation Description Receive & Inspect for Da  Memo	amage & Mat'l Certs	Set Up/ Run Hours 0.00		Tool ID	Tool#	Plan Code	Accept Qty	Rej Qu		Reject Number	Insp. Stamp
140 *140* QC Quality Control		QC6- Inspect dimensions	s to drawing	0.00	DAS 27 989				1		-·· <b>-</b> -		

0.00

0.00

150

\*150\* Large Fab

Large Fab

Large Fab

Assemble screen & washer as per dwg D2000

			DQA:	Date:
NCR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE		

		•									QA Closed:	Date	2:
Work Orde	er.					DISPOSITION	AGAINST DEPARTMENT/PROCESS						
Part N	•					Rework Scrap Use-as-is	]	Machining Small Fab Prod. Eng. Coor. C					Engineering Quality Other
NCR f	No.					Work Order Update	]	Thermoforming Finishing Rec/Store/Packaging Supplier					
Root					Descri	ption of work order update	i	nitial	Act	tion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling			·										
Operator			<u> </u>										
Material			ĺ									İ	
Setup	L_											ļ	
Other				<u> </u>								ĺ	
Process			•								ı		1
Supplier				1									
Training	L		ļ	]								<u>[</u>	
Unapproved			<u> </u>										
							AUL	T CATE	GORY		· · · · · · · · · · · · · · · · · · ·		
Landi	ng (	Gear				General	_			<b>,</b> —	7	_	_
	L	Bending			L	Bend		Grain		<u> </u>	Ovalized	Ļ	Pressure/Forced
		Centre No	ot Concei	ntric to	O/S	BOM/Route	_	Hardwa			Over/Under	_	Temperature/Cure
	L	Cracks			_	Broken/Damaged	_	i	ion Incomplete	<u> </u>	Part Incorre	<b>,</b>	Weld
	Crushed/Crimped Burrs			Burrs	_	Instruct	tions Incomplete/	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled		
	Cuffs Contamination			Mainte		<u> </u>	Part Moved						
	L	Heat Trea			_	Countersink		Mislabe		<u> </u>	Positioned V	_	¬ .
	L	Inspection		Tube		Cut Too Short		Misread	d	L_	Power Loss/	Surge	Other
1	上	Ripples in	Bend		<u> </u>	Drill Holes	$\vdash$	Offset					
	L	Torque W	/aves in E	Extrusio	n  _	Drawing		4	Calibration				
	L	Turning S	equence			Finish		Out of S	Sequence				<u> </u>
1		Wave/Tw	ist in Tul	oe e	[	Folio	1	Outside	Dimensions				

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W	ork	Order	ID	105821
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## \*105821\*

Page 3

Tuesday, Augus	st 20, 2013 10:48:51 AM		1 ( ); ) (		r age 3
Item ID: Revision ID: Item Name: Start Date: Required Date	D2000-047  Aspirator Assy - Defrost  8/20/2013	•	Accept	*N900040100*  Cust Item ID:	Setup Start *NS1* Stop *NS2*
Reference:	1. 0/30/2015 Red & Qty. 1.00	<b>^1^</b>		Customer:	
Approvals:	Process Plan: QC:	Date:		Date: Date:	Run Start *NR1* Stop *NR2*
Sequence ID/ Work Center I 160 *160* QC Quality Control	•	mpleteness to step on W/O	Set Up/ Run Hours 0.00 DAS 0.00 27 9-89	Tool ID Tool # Plan Accept Code Qty	ot Reject Reject Insp. Qty Number Stamp
*170 *170* Packaging Packaging	Identify as per dwg ô	t Stock Location:	19 0.00 0.00		[43/2/4 (V)
¹80 *12∩* oc		on - Work Order Release	0.00		13/9/99
Quality Control	Memo		0.00		

NB-09-4

		DQA:	Date:
NCR: Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE	<del></del>	

									QA Closed:	Date:	
Work Orde	er:				DISPOSITION	_	_	AGAINST DE	PARTMENT,	/PROCESS	
	Part No. Scrap Machining Small Fab Use-as-is Thermoforming Finishing					Crosstube Small Fab Finishing Composite	Pro Rec/Sto	Engineering Quality Other			
Root	<u> </u>			Descri	ption of work order update	Initial	Ac	ction	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Desc	cription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training											
Unapproved			<u></u>	<u> </u>		AULT CATE			<u> </u>	<u> </u>	1
Londin	ng Gear	<del> </del>			General C	AULI CAIL	GOKI				
Landi	Bendin Centre Cracks Crushe Cuffs Heat Ti Inspect Ripples Torque	Not Conce d/Crimped eat ion Strip ir in Bend Waves in 3 Sequence	ı Tube Extrusio		Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish	Instruc Mainte Mislab Misrea Offset Out of	tion Incomplete tions Incomplete, enance eled d Calibration Sequence	/Unclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
	Wave/	Twist in Tu	be	l	Folio	Outside	e Dimensions				

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Work Order ID:

105821

Parent Item:

D2000-047

Parent Item Name:

Aspirator Assy - Defrost

Start Date: 8/20/2013

Required Date: 8/30/2013

Page 1

Parent Item Name:	Aspirator Assy - Do	efrost						St	art <b>Q</b> ty; 1.00		Required	Qty: 1.00	
Comments:	IPP C02.03.05Re	vised Pick ListSM											
Component Item 1D/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2000-043 Jet		Manufactured	No			100	Each	21.0000	<u> </u>	1	 13::8:::	ره لو	_ = ==
÷;	,			Location ST002	34)	<u>Loc Otv</u> 21 21	<u>l.a</u>	oc Code				*	
D2000-109 Aspirator		Manufactured	No	_		100	Each	10.0000	1	1 E7_/i	3.58	5	·
D2000-111	•	Manus 6 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	No	Location Mezz 4357		Loc Oty 10 10		oc Code					
Aspirator		Manufactured	140	Location Mczz		100 <u>Loc Oty</u> 7	Each <u>L</u> c	7.0000 oc Code	energy server	12/	3-8-3	ð	
D2714 Washer	•	Manufactured	No	4357	72	7	Each	226.0000	1	1 	3-8-a	2	
				Location Mezz 1816	54	Loc Oty 226 226	<u>Lo</u>	oc Code					
D3047-1 Screen Vent		Manufactured	No			110	Each	56.0000	1	1	F	/_3	09-0
				<u>Location</u>		Loc Oty	Lo	oc Code					•
				ST024 1736	1	56 56							

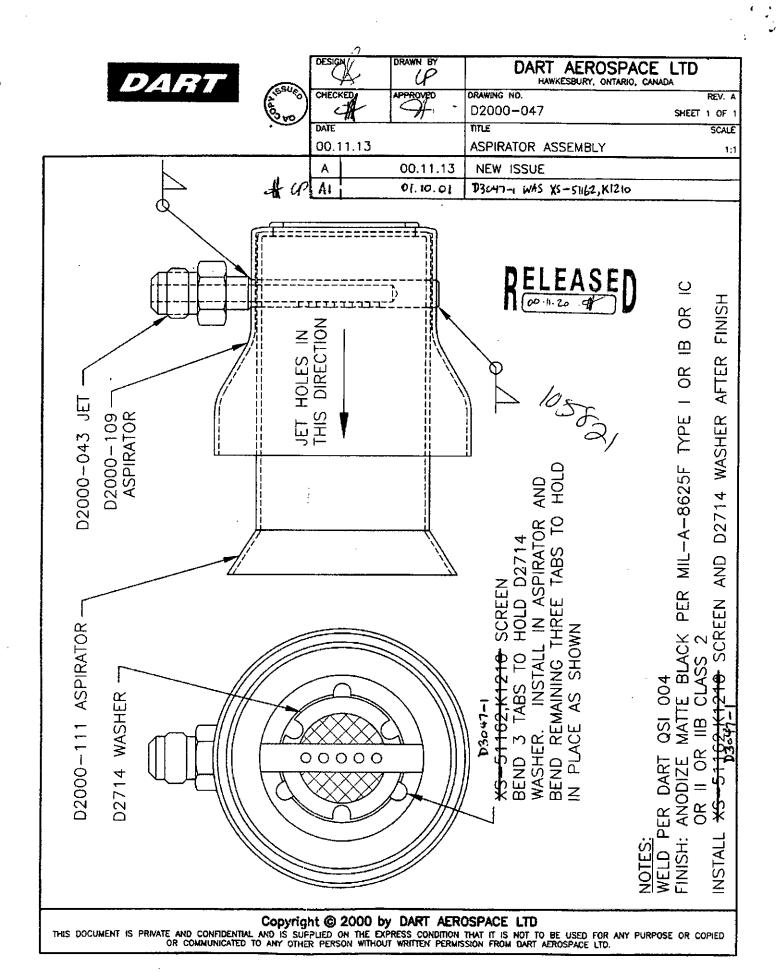
DQA:	Date:	
-		

NCR: Yes / No

## **WORK ORDER NON-CONFORMANCE / UPDATE**

	·							•	QA Closed:	· Da	te:		
Work Order:					DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part No				Rework Scrap Use-as-is Work Order Update	]     	l herm	Skid-tube Crosstube Machining Small Fab noforming Finishing Large Fab Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	- Quality Other			
Root		]		Descri	ption of work order update	Initi	ial	Action	Sign &				
Cause	Date	Step	Qty		•		Eng	Description	Date	Verificatio	n QC Inspector		
Doc/Data		1											
Equip/Tooling													
Operator		ŀ											
Material													
Setup													
Other													
Process		1				i							
Supplier													
Training													
Unapproved								3333333					
					F	AULT C	ATE	GORY					
Landir	ng Gear				General	_		_	_				
	Bending				Bend	end Grain			Ovalized		Pressure/Forced		
	Centre No	ot Conce	ntric to (	o/s	BOM/Route	На	Hardware		Over/Under tolerance		Temperature/Cure		
	Cracks				Broken/Damaged	Ins	pecti	on Incomplete	Part incorrect		Weld		
	Crushed/	Crimped			Burrs	lns	truct	ions Incomplete/Unclear	Part Lost/M	Part Lost/Missing Wrong Stock Pi			
	Cuffs				Contamination	М	Maintenance		Part Moved				
į	Heat Trea	at			Countersink	Mi	Mislabeled		Positioned V	Vrong			
[	Inspection	n Strip in	Tube		Cut Too Short	Мі	Misread		Power Loss/	Surge	Other		
	Ripples in	Bend			Drill Holes	Of	fset						
	Torque W	/aves in E	extrusion	ո [	Drawing	∐0u	t of C	Calibration	4				
	Turning S	equence			Finish	L Ou	rt of S	equence					
	Maye/Twist in Tube				Folio	Llou	itside	Dimensions					

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NCR:	Yes	1	No
		•	

												DQA:	,D	ate:	C
es	/ No					WORK ORDER NON-C	O	NFOR	MANCE / UP	DATE		QA Closed:	Di	ate:	
ork Order:						DISPOSITION AGAINST D			DE	DEPARTMENT/PROCESS					
Part No.  NCR No.					Rework Scrap Use-as-is Work Order Update	Scrap Machining Small Fab Use-as-is Thermoforming Finishing		E	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier		Engineering Quality Other				
1				Desc	rip	tion of work order update	1	lnitial	Ac	tion		Sign &			
	Date	Step	Qty		0	r Non-conformance	Ch	ief Eng	Desc	ription		Date	Verification	n	QC Inspector
						•				`					
							AUL	T CATE	GORY						
Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence				Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish		Inspect Instruct Mainte Mislabe Misread Offset Out of t	on Incomplete ions Incomplete/ enance eled i Calibration Sequence	/Unclear		Part Incorred Part Lost/Mi Part Moved Positioned V	ct ssing Vrong		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other		
	r:	Date  Date  Bending Centre No Cracks Crushed/O Cuffs Heat Trea Inspection Ripples in Torque W Turning S	r:  O.  Date Step  Date Step  Bending Centre Not Concer Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Ripples in Bend Torque Waves in E Turning Sequence	ng Gear  Bending Centre Not Concentric to C Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion	r:  O.  Date Step Qty  Description  Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence	r:	Tries   Disposition   Rework   Scrap   Use-as-is   O. Date   Description of work order update   Date   Step   Qty   Or Non-conformance    Tries   Date   Description of work order update   Or Non-conformance    Tries   Description of work order update   Or Non-conformance   Or Non-conformance    Tries   Description of work order update   Or Non-conformance   Or Or Non-	TEAUTOR  TO DISPOSITION  Rework Scrap Use-as-is Work Order Update  Date Step Qty Description of work order update or Non-conformance  To Date Step Qty Description of work order update or Non-conformance  FAULT Step Description of work order update or Non-conformance  Character General Bend Bend Bom/Route  Bending Centre Not Concentric to O/S BOM/Route  Cracks Broken/Damaged  Crushed/Crimped Burrs  Crushed/Crimped Cuffs Contamination  Cuffs Contamination  Heat Treat Countersink  Inspection Strip in Tube Cut Too Short  Ripples in Bend Drill Holes  Torque Waves in Extrusion Drawing  Turning Sequence Finish	Therm  DISPOSITION  Rework  Scrap  Use-as-is  Work Order Update  Date  Step  Qty  Description of work order update or Non-conformance  FAULT CATE  General  Bending Centre Not Concentric to O/S Cracks Broken/Damaged Inspection Curtsed/Crimped Burrs Crushed/Crimped Cuffs Contamination Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence  DISPOSITION  Rework Scrap Use-as-is Vork Order update On Non-conformance  Fault Cate Seneral Bend Bend Bend Bend Bend Bom/Route Bom/Route Burrs Instruct Contamination Mainte Cut Too Short Misreac Offset Drill Holes Offset Out of Strip Turning Sequence Finish  Out of Strip Out of Strip Out of Strip Counters Strip Out of Strip Counters Strip Counter Short Counters Short Counter Short C	The properties of the properti	The motor of the properties of	The result of the properties o	WORK ORDER NON-CONFORMANCE / UPDATE  QA Closed:  DISPOSITION  Rework Scrap Use-as-is Work Order Update Use-as-is Work Order Update Use-as-is Composite Use-as-is Date  Date Step Qty Or Non-conformance Or	Part Incorrect    See   No   WORK ORDER NON-CONFORMANCE   UPDATE	WORK ORDER NON-CONFORMANCE / UPDATE  OLISPOSITION  Rework  OLISPOSITION  Rework  OLISPOSITION  Rework  OLISPOSITION  Rework  OLISPOSITION  Rework  OLISPOSITION  Rework  Skid-tube  Machining  Small Fab  Prod. Eng. Coor.  Rec/Store/Packaging  Composite  Prod. Eng. Coor.  Rec/Store/Packaging  Supplier  Rec/Store/Packaging  Supplier  FAULT CATEGORY  General  Bending  Centre Not Concentric to O/S  Broken/Damaged  Broken/Damaged  Crushed/Crimped  Burrs  Broken/Damaged  Burrs  Instructions Incomplete  Inspection Incomplete  Instructions Incomplete  Instructions Incomplete/Unclear  Inspection Incomplete  Instructions Incomplete  Inspection Incomplete  Instructions Incomplete  Instru



A.T.G. Industries Inc. 731, rue Industrielle Rd. PLATING DEPARTMENT Rockland, On K4K 1T2 Canada

Ph: (613) 446-4544 Fax: (613) 446-4556

## Pack List

Number: 62587

Date: 27-Aug-13

To

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7 Canada Ship To

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7

Canada

Ph: 613-632-5200

Fax: 613-632-1185

Ph: 613-632-5200

Fax: 613-632-1185

				——————————————————————————————————————	<del></del>
Terms	·	Ship Via			<u> </u>
Quantity	Description		······································		
1	Part: ASST		Rev:		·
lot					
	1 PC D2000-047				
	10 PCS D2055 8 PCS D4726-1	•			
	BLACK ANODIZE				
	MIL-A-8625 TYPE II CLASS 2				
	10 PCS D3299-1				
	BLUE ANODIZE				
	MIL-A-8625 TYPE II CLASS 2				
	Job: 20130538	PO: 21012	Line:	_	
	Certificate of Cor	nformance			
	A.T.G. Industries certifies that all items	in this shipment are in	conformance		
	with all requirements, specifications and	d drawings referenced i	n the purchase order.		
	ISO 9001 : 2008 REG	GISTERED			
	ATG SALES-2010 TE	ERMS APPLY		•	
	DATE 27/8//3				
	CERTIFIED SIGNATURE :	<u>.                                    </u>			
	RECEIVER SIGNATURE :				
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4**					